

WHAT IS CLAIMED IS:

1. A data transmitting method of a network line, which connects, via the network line, a transmitting apparatus for transmitting data to a plurality of receiving apparatuses for receiving said data and transmits said data from said transmitting apparatus to one of said receiving apparatuses, comprising the steps of:

holding an MAC (Media Access Control) address that is peculiar to each of said receiving apparatuses and a changeable IP (Internet Protocol) address into each of said receiving apparatuses;

previously holding said MAC address and said IP address into said transmitting apparatus every said receiving apparatus so as to correspond to each other;

15 outputting a predetermined IP address from said transmitting apparatus to said network line and, when said transmitting apparatus detects completion of the line connection to said receiving apparatus which holds said predetermined IP address, transmitting said data from said transmitting apparatus to said receiving apparatus; and

20 when said transmitting apparatus detects a defect of said line connection, outputting a transmitting request of the IP address and the MAC address from said transmitting apparatus to each of said receiving apparatuses, when said transmitting apparatus detects coincidence of its own MAC address held therein and the received MAC address, allowing said transmitting apparatus

to update the IP address corresponding to its own MAC address held therein to the received IP address, and transmitting said data to said receiving apparatus which holds said received IP address.

5       2.       The method according to claim 1, wherein when said transmitting apparatus detects the completion of said line connection, the transmitting request of the MAC address is outputted from said transmitting apparatus to said receiving apparatus which holds said predetermined IP address, and when said transmitting apparatus detects the coincidence of its own MAC address held therein and the received MAC address, said data is transmitted from said transmitting apparatus to said receiving apparatus which holds said predetermined IP address.

10      10      15      3.       The method according to claim 1, wherein said transmitting apparatus comprises a personal computer having a printer driver for generating print data as said data and said receiving apparatus is a network printer.

15      15      20      4.       The method according to claim 1, wherein said transmitting request of the IP address and the MAC address is outputted from said transmitting apparatus to said receiving apparatus and a table in which the received MAC address and the received IP address of each of said receiving apparatuses are made to correspond to each other is preliminarily formed in said transmitting apparatus.

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